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THE

# TWENTY-NINTH ANNUAL REPORT

OF THE

BOARD OF DIRECTORS

OF THE

# ZOOLOGICAL SOCIETY

OF PHILADELPHIA.

(INCORPORATED MARCH 21ST, 1859.)

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READ AT THE ANNUAL MEETING OF THE MEMBERS AND LOAN-  
HOLDERS OF THE SOCIETY.

APRIL 25th, 1901.

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PHILADELPHIA :  
PRINTING HOUSE OF ALLEN, LANE & SCOTT,  
1211-13 Clover Street.  
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THE  
ZOOLOGICAL SOCIETY OF PHILADELPHIA.

OFFICE, THIRTY-FOURTH STREET AND GIRARD AVENUE,  
FAIRMOUNT PARK.

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BOARD OF DIRECTORS:

|  |  |
|--|--|
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| J. VAUGHAN MERRICK,<br><i>Vice-President,</i>              | CHRISTIAN C. FEBIGER,                              |
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|  | CHARLES PLATT, JR.                                 |

ACTUARY.

CHARLES L. JEFFERSON.

ASSISTANT SUPERINTENDENT.

ROBERT D. CARSON.



# REPORT

## OF THE

# BOARD OF DIRECTORS.

PHILADELPHIA, April 25th, 1901.

The Board of Directors of the Zoological Society of Philadelphia submits to the members and loanholders its twenty-ninth annual report of the affairs of the Society for the year ending February 28th, 1901.

### GENERAL AFFAIRS AND FINANCES.

The number of members at the close of the year was :—

|                                 |       |
|---------------------------------|-------|
| Annual members . . . . .        | 293   |
| Life members . . . . .          | 1,325 |
| Corresponding members . . . . . | 9     |
| Honorary members . . . . .      | 21    |
| Perpetual members . . . . .     | 260   |
| Junior members . . . . .        | 2     |

Total members . . . . . 1,910

It has long been felt that there should be a grade of membership especially suited to children. To meet this need the Board has created a class of Junior Members, the conditions of which are stated in the following by-law :—

“Junior Members shall be minors, who shall be elected by the Board and shall make such payment as may be fixed by the Board. Junior membership shall terminate when the holder becomes eighteen years of age; but a Junior Member may become a Life Member on payment of the additional sum required to equal fifty dollars.”

The single payment required of Junior Members has been fixed at five dollars.

An effort has been organized to canvass the city for the purpose of increasing the membership in all classes, and it is earnestly hoped that their numbers may be brought up to a point which will compare more favorably than is now



the case, with the classes of contributing members of similar institutions in other cities.

The following is a report in detail of the admissions and receipts for the year :—

|  |         |
|--|---------|
| Adults (paying at gates) . . . . .   | 124,851 |
| Children (paying at gates) . . . . .   | 39,277  |
| Members (including Life and Annual Members,<br>loanholders' annual, and complimentary annual<br>tickets) . . . . . | 2,310   |
| Loanholders' single tickets . . . . .  | 11,552  |
| Free admissions (charitable institutions, donors'<br>tickets, &c.)* . . . . .                                      | 3,156   |
| Coupon tickets . . . . .   | 523     |
| Excursion tickets . . . . .  | 10,237  |
|  | <hr/>   |
|  | 191,906 |
|  | <hr/>   |

*Monthly Record of Visitors for 1900-1901, with corresponding  
account for 1899-1900.*

| MONTH.              | 1899-1900. | 1900-1901. | COMPARISON.         |
|---------------------|------------|------------|---------------------|
| March . . . . .     | 5,291      | 8,379      | Increase . . 3,088  |
| April . . . . .     | 17,352     | 18,863     | " . . 1,511         |
| May . . . . .       | 25,747     | 24,245     | Decrease . . 1,502  |
| June . . . . .      | 15,999     | 24,170     | Increase . . 8,171  |
| July . . . . .      | 21,930     | 20,700     | Decrease . . 1,230  |
| August . . . . .    | 25,992     | 27,192     | Increase . . 1,200  |
| September . . . . . | 42,276     | 24,443     | Decrease . . 17,833 |
| October . . . . .   | 17,170     | 14,845     | " . . 2,325         |
| November . . . . .  | 13,785     | 9,884      | " . . 3,901         |
| December . . . . .  | 7,613      | 8,334      | Increase . . 721    |
| January . . . . .   | 4,295      | 5,001      | " . . 706           |
| February . . . . .  | 5,064      | 5,850      | " . . 786           |
|                     | <hr/>      | <hr/>      | <hr/>               |
|                     | 202,514    | 191,906    | Decrease . . 10,608 |

Average daily admissions . . . . . 526  
 The greatest number of visitors on any one day was  
 on Wednesday, May 30th . . . . . 4,330

\* In addition to these, 125,000 tickets were issued to the Board of Education, for the admission of pupils of the Public Schools.

*Monthly Record of Receipts from Admissions for 1900-1901,  
with corresponding account for 1899-1900.*

| MONTH.      | 1899-1900.  | 1900-1901.  | COMPARISON.           |
|-------------|-------------|-------------|-----------------------|
| March . . . | \$993 96    | \$1,268 70  | Increase . \$274 74   |
| April . . . | 2,545 61    | 3,004 81    | " . 459 20            |
| May . . .   | 3,440 11    | 3,278 94    | Decrease . 161 17     |
| June . . .  | 2,116 23    | 3,147 66    | Increase . 1,031 43   |
| July . . .  | 2,887 64    | 2,869 14    | Decrease . 18 50      |
| August . .  | 3,435 80    | 3,527 47    | Increase . 91 67      |
| September,  | 5,368 69    | 2,979 78    | Decrease . 2,388 91   |
| October . . | 2,613 97    | 2,034 14    | " . 579 83            |
| November,   | 1,927 78    | 1,359 99    | " . 567 79            |
| December .  | 1,083 13    | 1,166 59    | Increase . 83 46      |
| January . . | 760 84      | 715 81      | Decrease . 45 03      |
| February .  | 708 40      | 743 61      | Increase . 35 21      |
| •           | \$27,882 16 | \$26,096 64 | Decrease . \$1,785 42 |

Average daily receipts from admissions . . . . . \$71 50

The largest amount of receipts at the gates on any  
one day was on Sunday, April 29th . . . . . 490 32

*Total Receipts on the several days of the week, and their respective  
averages for 1900-1901.*

| RANK. | DAYS.               | TOTAL RECEIPTS. | AVERAGE. |
|-------|---------------------|-----------------|----------|
| 1     | Sunday . . . . .    | \$9,155 15      | \$176 06 |
| 2     | Saturday . . . . .  | 6,503 50        | 105 84   |
| 3     | Wednesday . . . . . | 2,639 55        | 50 76    |
| 4     | Monday . . . . .    | 2,110 18        | 40 58    |
| 5     | Thursday . . . . .  | 2,141 04        | 40 40    |
| 6     | Tuesday . . . . .   | 1,954 12        | 37 58    |
| 7     | Friday . . . . .    | 1,593 10        | 30 64    |
|       |                     | \$26,096 64     |          |

The receipts from admissions have been \$1785 less than  
in the preceding year, but when the fact is recalled that in

September 1899, the encampment of the Grand Army of the Republic added several thousand dollars, nearly all of which came from strangers to the city, it is seen that the regular admissions have probably been somewhat greater than in that year.

It is not easy to express the full extent of the loss sustained by the Society, in the death on July 14th of Mr. James Biddle Leonard, a member of the Board since 1893. Though Mr. Leonard's interest in the Gardens began with their opening, the demands of an active life long withheld him from an official connection with them, but from the date of his election as a Director, he brought to bear upon all questions concerning their welfare, a clear judgment and an unfailing energy which resulted in services second to no others rendered by any single individual to the Society.

#### THE GARDENS.

The statement following shows the whole number of living specimens which have been shown in the collections during the year, and the number of genera and species in each class to which they belong:—

|                       | GENERA.   | SPECIES.  | SPECIMENS.  |
|-----------------------|-----------|-----------|-------------|
| Mammals . . . . .     | 92        | 169       | 613         |
| Birds . . . . .       | 198       | 317       | 817         |
| Reptiles . . . . .    | 69        | 129       | 1,069       |
| Batrachians . . . . . | 9         | 11        | 58          |
|                       | <hr/> 368 | <hr/> 626 | <hr/> 2,557 |

The following species were exhibited for the first time in the Gardens:—

#### MAMMALIA.

##### PRIMATES.

1. *Cercopithecus ludio* Gray. Ludio monkey.  
Hab., West Africa.  
One specimen. Purchased April 16th.



## CARNIVORA.

2. *Canis corsac* Linn. Corsac fox.  
Hab., western and central Asia.  
Two specimens from Siberia. Purchased.
3. *Canis cerdo* Gm. Fennec fox.  
Hab., North Africa.  
One specimen. Purchased.
4. *Otocyon megalotis* (Desm.) Long-eared fox.  
Hab., South Africa.  
Two specimens. Purchased.
5. *Putorius cicognani* (Bonap.) Bonaparte's weasel.  
Hab., northern United States.  
Two specimens from Michigan. Purchased.
6. *Lutra lutra* (Linn.) European otter.  
Hab., Europe.  
One specimen. Purchased.

## RODENTIA.

7. *Sciurus prevosti* Desm. Prevost's squirrel.  
Hab., the Malayan region.  
Two specimens, brought from Singapore. These belong to the richly colored variety sometimes known as *S. rafflesi* Vig. & Hors.
8. *Spermophilus mexicanus* (Licht.) Mexican spermophile.  
Hab., southwestern Texas and Mexico.  
Three specimens from Pecos, Texas.
9. *Neotoma micropus* Baird. Gray wood rat.  
Hab., western Texas.  
Four rats received from Pecos, Texas, seem to be referable to this species.
10. *Sigmodon hispidus texianus* (Aud. & Bach.) Texas cotton rat.  
Hab., Texas.  
Five specimens from Pecos.
11. *Onychomys torridus arenicola* Mearns. El Paso grasshopper mouse.  
Hab., southwestern Texas.  
One specimen from Pecos.

12. *Cratogeomys castanops* (Baird.) Pocket gopher.  
Hab., southwestern United States.  
Two specimens from Pecos.
13. *Dipodomys ambiguus* Merriam. Kangaroo rat.  
Hab., southwestern Texas.  
As well as can be determined from external characters,  
four kangaroo rats from Pecos belong to this sub-  
species.

## AVES.

## PASSERES.

14. *Garrulax leucolophus* (Hard.) White-crested jay thrush.  
Hab., India.  
Two specimens. Purchased.
15. *Lanius ludovicianus* (Linn.) Loggerhead shrike.  
Hab., eastern United States.  
One specimen presented by Mr. Frank Phillips. Cap-  
tured in Fairmount Park, Philadelphia, December  
14th, 1900.
16. *Quelea russi* (Finsch.) Russ' weaver bird.  
Hab., South Africa.  
Five specimens. Originally purchased as *Q. quelea*.
17. *Lagonosticta senegala* (Linn.) Senegal fire finch.  
Hab., west Africa.  
Five specimens. Purchased.
18. *Serinus icterus* (Bonn. & Vieill.) Yellow-rumped seed-  
eater.  
Hab., Africa.  
Two specimens. Purchased.
19. *Pipilo maculatus arcticus* (Swain.) Western towhee.  
Hab., western North America.  
One specimen, from Pecos, Texas. Purchased.

## PSITTACI.

20. *Cacatua citrinocristata* (Fraser.) Citron-crested cockatoo.  
Hab., Sumba, Moluccas.  
One specimen. Presented July 21st by Mrs. C.  
Cresson.

21. *Conurus holochlorus* Scl. Mexican conure.  
 Hab., Mexico and Central America.  
 One specimen. Purchased.
22. *Chrysotis guatemalæ* Harte. Guatemalan amazon.  
 Hab., Central America.  
 One specimen. Purchased.

## GALLINÆ.

23. *Coturnix chinensis* (Linn.) Chinese quail.  
 Hab., India to China.  
 Five specimens, said to have come from Java. Purchased.
24. *Callipepla squamata* Vig. Scaled quail.  
 Hab., southwestern United States.  
 One specimen from Pecos, Texas. Purchased.

## FULICARIÆ.

25. *Limnocorax niger* (Gm.) Black gallinule.  
 Hab., Africa.  
 One specimen. Purchased.
26. *Gallinula chloropus* Linn. Moor hen.  
 Hab., Europe, Asia, and Africa.  
 Two specimens. Purchased.

## STEGANOPODES.

27. *Phalacrocorax auritus* (Less.) Double-crested cormorant.  
 Hab., eastern North America.  
 Two specimens from Florida. Purchased.

## HERODIONES.

28. *Ardea cocoi* Linn. Cocoi heron.  
 Hab., South America.  
 One immature specimen from the Amazon. Purchased.
29. *Mycteria americana* (Linn.) American jabiru.  
 Hab., Mexico to Brazil.  
 One specimen of this fine stork was purchased October 16th.



## ANSERES.

30. *Cygnus musicus* Bechst. Whooper swan.  
 Hab., northern Europe and Asia.  
 Two specimens. Purchased.
31. *Coscoroba coscoroba* (Mol.) Coscoroba swan.  
 Hab., southern South America.  
 Two pairs. Purchased.

## REPTILIA.

## CHELONIA.

32. *Emys orbicularis* (Linn.) Pond tortoise.  
 Hab., southern Europe and northern Africa.  
 Twenty specimens from Italy. Purchased.
33. *Testudo horsfieldi* Gray. Horsfield's tortoise.  
 Hab., western Asia.  
 Two specimens from near Semipalatinsk, Siberia.  
 Purchased.
34. *Testudo geometrica* Linn. Geometric tortoise.  
 Hab., South Africa.  
 Two specimens. Purchased.
35. *Testudo argentina* Selater. Argentine tortoise.  
 Hab., South America.  
 One specimen. Purchased.
36. *Chelodina longicollis* (Shaw.) Long-necked terrapin.  
 Hab., South Australia.  
 Two specimens. Purchased.
37. *Hydraspis hiliarii* Dum. & Bib. St. Hilaire's terrapin.  
 Hab., South America.  
 One specimen. Purchased.

## SQUAMATA.

38. *Tupinambis nigropunctatus* Spix. Black-spotted teguixin.  
 Hab., Guiana and Brazil.  
 One specimen, purchased from a dealer; said to have  
 come from St. Lucia.
39. *Eumeces algeriensis* Peters. Algerian skink.  
 Hab., northwestern Africa.  
 Two specimens. Purchased.

40. *Tropidonotus clarkii* (B. & G.) Clarke's water snake.  
     Hab., Louisiana and Texas.  
     Four specimens from Port Lavaca, Texas.
41. *Zamenis flagellum frenatus* Stej. Bridled whip snake.  
     Hab., southwestern United States. -  
     One specimen of this fine snake was presented July  
     10th, by Mr. Herbert Brown, of Yuma, Arizona.
42. *Rhinechis elegans* (Kenn.) Elegant bull snake.  
     Hab., Texas, Arizona, and northern Mexico.  
     Two specimens from Pecos, Texas. Purchased.
43. *Dromicus angulifer* Bibron. Swift snake.  
     Hab., Cuba.  
     One specimen. Purchased.
44. *Ophibolus rhombomaculatus* (Holb.) Blotched king snake.  
     Hab., southeastern United States.  
     One specimen from Raleigh, N. C.
45. *Virginia elegans* Kenn. Virginia's snake.  
     Hab., Mississippi Valley.  
     One specimen of this rare little snake was procured  
     from Bay St. Louis, Mississippi.
46. *Tantilla gracilis* B. & G. Graceful tantilla.  
     Hab., Missouri to Texas.  
     Five specimens taken in Jefferson County, Missouri,  
     were received in exchange from Mr. Julius Hurter,  
     of St. Louis.
47. *Sistrurus catenatus consors* B. & G. Southern prairie  
     rattlesnake.  
     Hab., southwestern United States.  
     A specimen received in May from Port Lavaca, Texas,  
     sufficiently shows the identity of this form with  
     the common prairie rattlesnake of the southern  
     plains region, which has hitherto been known as  
     *S. edwardsi*.

Among other accessions of more than common interest may be mentioned a cyclodus lizard (*Tiliqua scincoides*) and a pair of dasyures (*Dasyurus viverrinus*), purchased from Carl Hagenbeck ; a specimen of the rare emperor boa (*Boa*

*imperator*) from Tampico, Mexico, presented on March 31st by Master J. K. M. Harrison. Three spiny comb-lizards (*Ctenosaura acanthura*), also from Tampico, were purchased in April.

On May 30th an American crocodile (*Crocodylus americanus*) was obtained by purchase from Lake Worth, Fla., which was followed on June 18th by a second specimen, eight feet long, from Cuba, presented by Mr. Paul Farnum. This animal was procured through the kind interest of Capt. W. Sanders Scott, United States Army.

A rare horned lizard (*Phrynosoma orbiculare*), native of Mexico, was presented June 27th by Mr. G. W. Fraley, and on the same day six collared lizards (*Crotaphytus collaris*) were received from Pecos, Texas.

On June 29th a fine example of the reticulated python was purchased. This species is found through the Malayan region, eastward to the Philippines.

A young male chimpanzee was received on July 11th as a gift from Dr. Thomas Biddle. This animal was placed in the hot room of the Small Mammal House, and has continued through the winter in full health and activity.

Among a number of animals purchased in July from Carl Hagenbeck were a pair of wart-hogs (*Phacochoerus æthiopicus*), a pair of black-backed jackals, and a young drill, the last being presented by Mr. Hagenbeck.

Three Boyle's king snakes were received from Yuma, Arizona, presented by Mr. Herbert Brown.

A mealy amazon (*Chrysotis farinosa*) from Guiana, and the second example which the Society has possessed of the tayra (*Galictis barbara*), were purchased in September, and a pair of galeated curassows (*Pauxi pauxi*) were received about the same time.

On January 19th Mr. Harold D. Campbell presented a slow loris, which had been brought by him from Java.

The births were as follows:—

1 green monkey (*Cercopithecus callitrichus*); born January 7th.



- 1 rhesus monkey (*Macacus rhesus*); born May 7th.
- 1 hamadryas baboon (*Papio hamadryas*); born February 17th.
- 1 black lemur (*Lemur macaco*); born June 13th.
- 1 gray wolf (*Canis lupus mexicanus*); born April 20th.
- 8 prairie wolves (*C. latrans*); born April 18th and 21st.
- 1 brown bear (*Ursus arctos*); born January 16th.
- 14 prairie dogs (*Cynomys ludovicianus*); born from May to July.
- 21 desert mice (*Peromyscus eremicus*); born from March to August.
- 4 wood rats (*Neotoma albigula*); born May and July.
- 1 Chapman's zebra (*Equus burchelli*) ♀; born May 20th.
- 4 Indian antelopes (*A. cervicapra*) 1 ♂, 3 ♀; born April, July, and October.
- 2 nyloghaie (*Boselaphus pictus*) ♂ ♂; born January 20th.
- 2 fallow deer (*Cervus dama*) ♂, ♀; born June 5th and 22d.
- 1 Malayan sambur deer (*C. equinus*) ♀; born November 14th.
- 8 hog deer (*C. porcinus*) 3 ♂, 5 ♀; born April, October, and January.
- 2 Virginia deer (*Mazama virginiana*) ♂, ♀; born June 6th and 10th.
- 1 Bactrian camel (*C. bactrianus*) ♀; born March 31st.
- 2 robust kangaroos (*Macropus robustus*); born November 14th and December 10th.
- 5 golden pheasants (*Chrysolophus pictus*); born May 16th and June 12th.
- 1 silver pheasant (*Gennæus nycthemerus*); born May 16th.
- 8 jungle fowl (*Gallus bankiva*); born April 30th and June 27th.
- 2 wild turkeys (*Meleagris gallopavo*); born July 31st.
- 9 Clarke's water snakes (*T. clarkii*); born July 24th.
- 40 banded water snakes (*T. s. fasciatus*); born in July and August.
- 16 Woodhouse's water snakes (*T. s. transversus*); born September 27th.
- 3 Sacken's garter snakes (*E. sackeni*); born August 27th.

- 9 Fairie's garter snakes (*E. proxima*); born June 28th.  
 3 common garter snakes (*E. sirtalis*); born July 19th.  
 72 Marcy's garter snakes (*E. marciana*); born June and September.  
 3 Say's pine snakes (*Pityophis sayi*); born October 24th.  
 6 ground rattlesnakes (*Sistrurus miliarius*); born August 30th and September 10th.  
 7 water moccasins (*Ancistrodon piscivorus*); born August 23d.

In 1880 a list was published, giving the proportional number of species of mammals which had bred in the Gardens, to the whole number which had been exhibited up to that time. A comparative statement, including the twenty-one years which have elapsed since then, is of interest:—

|                 | 1880.                     |                  |             | 1901.                     |                  |             |
|-----------------|---------------------------|------------------|-------------|---------------------------|------------------|-------------|
|                 | NO. OF SPECIES EXHIBITED. | NUMBER BREEDING. | PROPORTION. | NO. OF SPECIES EXHIBITED. | NUMBER BREEDING. | PROPORTION. |
| Primates . .    | 46                        | 3                | 1 in 15.3   | 89                        | 11               | 1 in 8      |
| Carnivora . .   | 44                        | 7                | 6.1         | 92                        | 18               | 5.1         |
| Insectivora . . | ..                        | ..               | ..          | 4                         | ..               | ..          |
| Chiroptera . .  | 3                         | ..               | ..          | 4                         | ..               | ..          |
| Rodentia . .    | 41                        | 8                | 5.2         | 73                        | 13               | 5.6         |
| Proboscidea . . | 2                         | ..               | ..          | 2                         | ..               | ..          |
| Ungulata . .    | 41                        | 13               | 3.1         | 81                        | 32               | 2.5         |
| Sirenia . . .   | 1                         | ..               | ..          | 2                         | ..               | ..          |
| Edentata . .    | 4                         | ..               | ..          | 8                         | ..               | ..          |
| Marsupialia .   | 19                        | 4                | 4.7         | 33                        | 11               | 3           |
| Monotremata .   | ..                        | ..               | ..          | 1                         | ..               | ..          |
|                 | 201                       | 35               | 5.7         | 389                       | 85               | 4.5         |

In the remaining classes the proportion of breeding species is much less. Among birds, 19 species have bred out of 657; of reptiles, 24 out of 263; and of batrachians, 2 out of 40.

It would appear that the constant observations which have been made in large zoological gardens should have thrown light on the nature of the physiological causes which underlie the sterility so general among wild animals in captivity, but it must be admitted that the advance in

biological knowledge during the last two generations has, as yet, done nothing to solve this important question.

The most noteworthy death of the year was that of the male Indian rhinoceros, purchased March 13th, 1875, which died January 3d, 1901, presenting every evidence of old age, which was probably the case, as he is known to have been at least fully mature when brought to this country, thirty-six years ago. As this species is now far on the road towards extinction, this loss is to be doubly regretted.

Other deaths were: a male polar bear, a brown hyena which had been in the Gardens for thirteen years, a striped hyena, and a male American buffalo, which was procured by exchange in 1896 in order to introduce a new strain of blood into the herd.

Much work has been done in the Gardens, both in repair and in extension.

The enlarging of the Aviary, which was referred to in the last report, has been completed by the erection at its north end, of a rectangular addition measuring thirty-two by twenty-four feet, for the accommodation of the collection of parrots, which formerly occupied one-half of the main building. This room contains eighty-two cages. Its walls are lined with white glazed tile, and being well lighted, the interior effect is most pleasing, and the sanitary conditions appear to be good. The old portion of the building was completely repaired, and the cages occupying the middle wall space on both sides were torn out and replaced by a double tier of smaller ones. Under the new arrangement the whole number of cages in the Aviary has been increased from sixty to one hundred and eighty-eight.

Twenty-six additional cases of improved construction have been placed in the central portion of the Reptile House, and the accommodations in the Small Mammal House were added to in a like manner.

The reduction in size, and increase in number, of the cages here mentioned, has resulted from the long experience of the Society in the effort to adjust the needs of animal life to the economical limitations which are forced upon

most zoological collections formed upon a large scale. In many groups, as in parrots among birds, and in reptiles of sluggish habit, it has not been found that cages, relatively extravagant both in space and cost, have added observably to health or longevity; in fact, with parrots, the best results have been reached in cages too small to induce the attempt to fly. On the side of the public, it is believed that both interest and instruction are better served by placing each species in a separate cage, than by mixing together in larger inclosures, a number of different kinds which it is practically impossible for the uninstructed visitor to identify.

Through the interest of a generous patron of the Gardens, means were provided for converting the upper portion of the stream in rear of the deer park, into a pond for otter, which has proved to be one of the most attractive features of the collection. At the lower end of the same stream, adjoining the beaver, another inclosure has been made for wood ducks.

Nearly all of the older buildings and enclosures were repaired and painted, leaving no great amount of such work to be done during the coming year.

The appropriation of \$2500 for permanent improvements, made by the City Councils, through the Commissioners of Fairmount Park, was expended in renewing asphalt walks. The great extent of these paths, most of which were laid twenty-five years ago, now creates the necessity of a considerable outlay for repairs, compensation for which may perhaps be found in the fact that, so far as is known, in no other zoological garden is the public provided with walks clean and dry at all seasons.

On a general review, it may be said that at no previous time have the Gardens possessed equal facilities for the display of the collections, and it has rarely happened that the collections themselves have been more extensive or important. This is especially true of small mammals, birds, and reptiles, although the second group was of necessity much scattered during the progress of the work at the Aviary, which occupied nearly the whole summer.



The Society has always given especial attention to the collecting of North American reptiles, and some measure of its success may be found in the statement that much of the time of the Secretary was occupied during the year, in preparing for publication a systematic work on the snakes of the United States, a large part of the basis for which was the collections made by the Society during the past twenty-five years, and it was found that of one hundred and thirty-one species and subspecies recognized in that work, eighty-six have been represented by living specimens in the Gardens. Of the forty-five which we have not yet succeeded in obtaining, the larger proportion are of remote and limited distribution—more than one-half of them being known only from a few alcoholic specimens scattered in various museums. Nineteen species of other authors, not recognized in the work here referred to, have also been shown in this collection.

For the gifts which have been made during the year the Board tenders its grateful acknowledgments.

By order of the Board,

ARTHUR ERWIN BROWN,

*Secretary.*

## INCOME AND EXPENDITURES.

For fiscal year ending March 1st, 1901.

## INCOME.

|   |           |                    |
|---|-----------|--------------------|
| Members' fees and dues . . . . .  | \$550 00  |                    |
| Admission receipts . . . . .  | 26,096 64 |                    |
| Donations . . . . .   | 525 00    |                    |
| Rents at Garden . . . . .   | 250 00    |                    |
| Interest, discount, &c. . . . .   | 1,076 41  |                    |
| Sundry receipts . . . . .   | 1,455 32  |                    |
| Sale of guide books . . . . .   | 68 40     |                    |
| Sales of animals . . . . .  | 695 50    |                    |
| Received from the city of Philadelphia through<br>the Commissioners of Fairmount Park . . . . . | 17,500 00 |                    |
|   |           | <u>\$48,217 27</u> |

## EXPENDITURES.

(Exclusive of Permanent Improvements, &amp;c.)

|  |             |                    |
|--|-------------|--------------------|
| Salaries and wages . . . . .                   | \$20,165 65 |                    |
| Office expenses . . . . .                      | 264 52      |                    |
| General expenses . . . . .                     | 22,760 40   |                    |
| Purchase of animals . . . . .                  | 3,088 10    |                    |
|  | \$46,278 67 |                    |
| Balance to credit of profit and loss . . . . . | 1,938 60    |                    |
|  |             | <u>\$48,217 27</u> |

## CAPITAL.

For fiscal year ending March 1st, 1901.

## RECEIPTS.

|   |            |                   |
|---|------------|-------------------|
| Temporary loan . . . . .  | \$5,500 00 |                   |
| Life memberships . . . . .  | 50 00      |                   |
| Received from the city of Philadelphia through<br>the Commissioners of Fairmount Park . . . . . | 2,500 00   |                   |
|   |            | <u>\$8,050 00</u> |

## EXPENDITURES.

|  |             |                   |
|--|-------------|-------------------|
| Addition to Aviary . . . . .   | \$5,888 70  |                   |
| Vulcanite walks . . . . .  | 2,474 11    |                   |
| Inclosure at otter pond . . . . .  | 241 88      |                   |
| Temporary loan . . . . .   | 1,500 00    |                   |
|  | \$10,104 69 |                   |
| Balance (being excess of expenditures over re-<br>ceipts of capital, and provided from profit and<br>loss) . . . . . | 2,054 69    |                   |
|  |             | <u>\$8,050 00</u> |

HENRY T. COATES,

Examined and found correct.

*Treasurer.*

CHRISTIAN C. FEBIGER,

THOMAS BIDDLE.

*Committee on Audit.*

LIST OF ADDITIONS TO THE MENAGERIE DURING THE YEAR  
ENDING FEBRUARY 28TH, 1901.

1900.

- March 6. 1 hog deer (*Cervus porcinus*) ♀ born in the Gardens.  
 " 8. 5 Chinese quail (*Coturnix chinensis*) purchased.  
 " 9. 1 Western diamond rattlesnake (*Crotalus atrox atrox*), 2 banded rattlesnakes (*Crotalus horridus*), 2 copperhead snakes (*Ancistrodon contortrix*) presented by Dr. Joseph McFarland, Philadelphia. 1 screech owl (*Scops asio*) presented by Fred Carter, Fox Chase, Pa.  
 " 13. 1 Indian antelope (*Antelope cervicapra*) ♂ born in the Gardens.  
 " 16. 2 Canada geese (*Branta canadensis*), 4 brant geese (*Branta bernicla*), 1 White's cyclodus (*Tiliqua scincoides*), 2 geometric tortoises (*Testudo geometrica*), 1 Argentine tortoise (*Testudo argentina*), 2 Horsfield's tortoises (*Testudo horsfieldi*), 2 long-necked terrapins (*Chelodina longicollis*), 1 St. Hilaire's terrapin (*Hydraspis hilarii*) purchased.  
 " 20. 1 hog deer (*Cervus porcinus*) ♂ born in the Gardens.  
 " 21. 6 desert mice (*Peromyscus eremicus*) born in the Gardens.  
 " 23. 2 screech owls (*Scops asio*) presented by H. E. Lukens, Philadelphia.  
 " 24. 2 alligators (*Alligator mississippiensis*) presented by Master Edward Ibrig, Philadelphia.  
 " 25. 1 common dasyure (*Dasyurus viverrinus*) purchased.  
 " 26. 1 alligator (*A. mississippiensis*) presented by Master Frank Stapf, Philadelphia. 2 common linnets (*Acanthis cannabina*) purchased.  
 " 27. 1 mocking bird (*Mimus polyglottus*) presented by Master Frederick H. Gibbs, Philadelphia. 4 desert mice (*Peromyscus eremicus*) born in the Gardens.  
 " 31. 1 emperor boa (*Boa imperator*), 1 smooth rat snake (*Spilotes corais corais*) presented by Master J. Kearsley M. Harrison, Chestnut Hill, Philadelphia. 1 Bactrian camel (*Camelus bactrianus*) ♀ born in the Gardens.
- April 2. 1 raccoon (*Procyon lotor*) presented by Henry Walser, Philadelphia. 1 water snake (*Tropidonotus sipedon sipedon*) presented by Master Charles Geiger, Philadelphia.  
 " 5. 1 alligator (*A. mississippiensis*) presented by William W. King, Philadelphia.  
 " 6. 2 alligators (*A. mississippiensis*) presented by Mrs. F. A. Shaw, Germantown, Philadelphia. 2 harlequin snakes (*Elaps fulvus*) purchased.  
 " 10. 2 skunks (*Mephitis mephitis*) purchased. 1 box tortoise (*Terrapene carolina*) presented by Miss Fannie Keim, Philadelphia.  
 " 11. 1 black ape (*Cynopithecus niger*) ♀ purchased. 1 opossum (*Didelphys marsupialis*) presented by J. J. M. Miller, Swedeland, Pa.  
 " 12. 1 entellus monkey (*Semnopithecus entellus*) ♀ purchased.  
 " 13. 1 prairie dog (*Cynomys ludovicianus*) presented by Mrs. C. A. Mac-Crossan, Philadelphia. 1 Amherst pheasant (*Chrysolophus amherstiae*), 1 common parodoxure (*Paradoxurus hermaphroditus*), 1 black-spotted teguixin (*Tupinambis nigropunctatus*) purchased. 1 hog deer (*Cervus porcinus*) ♀ born in the Gardens.

- April 15. 1 alligator (*A. mississippiensis*) presented by Master Horace Johnson, Philadelphia. 1 black bear (*Ursus americanus*) ♂, 1 ludio monkey (*Cercopithecus ludio*) ♀, 1 white-collared mangabey (*Cercocebus collaris*) ♀, 1 white-crowned mangabey (*Cercocebus athiops*) ♀, 1 black spider monkey (*Ateles ater*), 2 six-banded armadillos (*Dasypus sexcinctus*) ♂ and ♀ purchased.
- " 17. 1 eastern diamond rattlesnake (*Crotalus adamanteus*) purchased.
- " 18. 1 grand eclectus (*Eclectus roratus*) ♀ purchased. 3 prairie wolves (*Canis latrans*) born in the Gardens.
- " 19. 1 snapping turtle (*Chelydra serpentina*) captured in the Gardens.
- " 20. 1 Indian antelope (*Antelope cervicapra*), 1 gray wolf (*Canis lupus mexicanus*) born in the Gardens. 3 eastern diamond rattlesnakes (*Crotalus adamanteus*), 2 harlequin snakes (*Elaps fulvius*), 1 scarlet king snake (*Ophibolus doliatus coccineus*), 5 brown water snakes (*Tropidonotus taxispilotus*) purchased.
- " 21. 5 prairie wolves (*Canis latrans*) born in the Gardens.
- " 23. 3 ravens (*Corvus corax*) presented by Ariel Harrison, Malaga, N. J. 2 mandarin ducks (*Aix galericulata*), purchased.
- " 24. 1 opossum (*Didelphys marsupialis*) presented by Patrick McDonald, Philadelphia.
- " 25. 1 hog deer (*Cervus porcinus*) ♀ born in the Gardens. 1 opossum (*Didelphys marsupialis*), presented by A. M. Weert, Philadelphia.
- " 27. 3 spiny-comb lizards (*Ctenosaura acanthura*), 2 black vultures (*Cathartes atratus*), 2 squirrel monkeys (*Chrysotrix sciureus*) ♂♂ purchased.
- " 28. 1 painted terrapin (*Chrysemys picta*) presented by Master Frank Hauser, Philadelphia. 1 cyclops water snake (*Tropidonotus cyclopeum*) presented by G. R. O'Reily, Jacksonville, Fla.
- " 30. 1 alligator (*A. mississippiensis*) presented by Mrs. Georgiana H. Shirk, Philadelphia. 4 jungle fowl (*Gallus gallus*) born in the Gardens.
- May 1. 1 raccoon (*Procyon lotor*) presented by Fred Schweibenz, Philadelphia. 1 gray squirrel (*Sciurus carolinensis pennsylvanicus*) presented by Mrs. A. E. Dwight, Melrose, Mass.
- " 2. 1 Canada goose (*Branta canadensis*) presented by A. P. Groves, Philadelphia. 2 brown water snakes (*Tropidonotus taxispilotus*) purchased.
- " 3. 1 three-banded douroucouli (*Nyctipithecus trivirgatus*) purchased. 1 herring gull (*Larus argentatus smithsonianus*) presented by Dr. Samuel G. Dixon, Philadelphia.
- " 4. 1 painted terrapin (*Chrysemys picta*) presented by Miss Annie T. Stevenson, Philadelphia.
- " 5. 2 ring-necked pheasants (*Phasianus torquatus*) presented by Williams B. Cadwalader, Philadelphia. 2 white-throated wood rats (*Neotoma albigula*) born in the Gardens.
- " 6. 1 alligator (*A. mississippiensis*) presented by J. G. Pfaff, Philadelphia.
- " 7. 1 rhesus monkey (*Macacus rhesus*) born in the Gardens. 1 alligator (*A. mississippiensis*) presented by George F. Schaum, Philadelphia.
- " 8. 1 blue-fronted amazon (*Chrysotis aestiva*) presented by Mrs. J. H. Brazier, Philadelphia. 1 red squirrel (*Sciurus hudsonius*) presented by Mrs. E. Carter, Philadelphia.



- May 9. 1 hog-nosed snake (*Heterodon platyrhinos*) presented by J. A. E. Norcross, Vincentown, N. J. 2 wild turkeys (*Meleagris gallopavo*) purchased.
- " 10. 2 Gila monsters (*Heloderma suspectum*), 2 western diamond rattlesnakes (*Crotalus atrox atrox*) purchased.
- " 12. 1 great horned owl (*Bubo virginianus*) presented by C. O. Maus, Philadelphia.
- " 13. 4 coscoroba swans (*Coscoroba coscoroba*), 3 shielddrakes (*Tadorna tadorna*), 3 mandarin ducks (*Aix galericula*), 2 corsac foxes (*Vulpes corsac*), 2 red-necked wallabies (*Macropus ruficollis ruficollis*) purchased. 1 red-necked wallaby (*M. ruficollis ruficollis*) born in the Gardens.
- " 15. 2 brant geese (*Branta bernicla*) presented by W. B. Mercer, Jr., Doylestown, Pa. 1 Levaillant's amazon (*Chrysotis levaillantii*) presented by Mrs. F. M. Rorke, Philadelphia. 2 prairie dogs (*Cynomys ludovicianus*) born in the Gardens.
- " 16. 1 canvas-backed duck (*Fuligula vallisneria*) purchased. 3 golden pheasants (*Chrysolophus pictus*), 1 silver pheasant (*Gennæus nycthemerus*) born in the Gardens.
- " 17. 1 cyclops water snake (*Tropidonotus cyclopeum*) purchased. 1 rabbit presented by Master Paul Wolfe, Philadelphia.
- " 19. 2 leopards (*Felis pardus*), 2 Indian gazelles (*Gazella bennetti*), 2 black apes (*Cynopithecus niger*), 1 entellus monkey (*Semnopithecus entellus*), 1 common cassowary (*Casuarus casuarus*), 2 pine snakes (*Pityophis melanoleucus*) purchased. 1 water snake (*T. sipedon sipedon*) presented by Dr. Joseph McFarland, Philadelphia. 2 pine snakes (*Pityophis melanoleucus*), 5 long-nosed sand snakes (*Heterodon simus*), 1 Say's pine snake (*Pityophis catenifer sayi*) purchased.
- " 20. 4 desert mice (*Peromyscus eremicus*) born in the Gardens.
- " 21. 3 Lindheimer's snakes (*Coluber obsoletus lindheimeri*), 3 Marcy's garter snakes (*Eutænia elegans marci*), 4 Graham's water snakes (*Tropidonotus grahami*), 2 Woodhouse's water snakes (*T. sipedon transversus*), 6 Holbrook's water snakes (*T. rhombifer*), 3 whip snakes (*Bascanium flagellum*) purchased.
- " 22. 1 Burchell's zebra (*Equus burchelli*) born in the Gardens. 1 alligator (*A. mississippiensis*) presented by Mrs. E. L. Miller, Philadelphia.
- " 23. 1 spiny soft-shelled turtle (*Trionyx spinifer*) presented by L. H. Chambers, Mount Holly, N. J.
- " 24. 3 long-nosed sand snakes (*Heterodon simus*), 3 hog-nosed snakes (*H. platyrhinos*), 1 water moccasin (*Ancistrodon piscivorus*) purchased. 1 harlequin snake (*Elaps fulvius*), 1 king snake (*O. getulus getulus*) presented by J. Hope, Philadelphia.
26. 1 hog-nosed snake (*H. platyrhinos*) presented by Thomas Wright Rudderow, Philadelphia. 1 Southern prairie rattlesnake (*Sistrurus catenatus consors*), 1 Marcy's garter snake (*Eutænia elegans marci*), 1 Fairie's garter snake (*E. proxima*), 1 water moccasin (*Ancistrodon piscivorus*), 4 whip snakes (*Bascanium flagellum*), 1 Woodhouse's water snake (*T. sipedon transversus*), 4 Clarke's water snakes (*T. clarkii*) purchased.

- May 27. 1 keeled green snake (*Liopeltis æstivus*), 1 harlequin snake (*Elaps fulvius*), 2 ring-necked snakes (*Diadophis punctatus*), 1 blotched king snake (*Ophibolus rhombomaculatus*) purchased. 1 Virginia's snake (*Virginia valeriæ*) deposited by Arthur Erwin Brown.
- " 28. 2 canaries (*Serinus serinus*) presented by Master Stacy H. Opdyke, Philadelphia.
- " 29. 1 Le Conte's snake (*Rhinochilus lecontei*) presented by John W. Thompson, Philadelphia. 1 Marcy's garter snake (*Eutænia elegans marciæ*), 1 Woodhouse's water snake (*T. sipedon transversus*) purchased.
- " 30. 1 American crocodile (*Crocodylus americanus*) purchased. 1 alligator (*A. mississippiensis*) presented by Samuel J. Nelson, Philadelphia.
- June 2. 1 alligator (*A. mississippiensis*) presented Miss M. Ambrose, Philadelphia.
- " 4. 1 red fox (*Canis vulpes pennsylvanicus*) presented by Dr. Alcott, Philadelphia.
- " 5. 1 fallow deer (*Cervus dama*) born in the Gardens. 1 water snake (*T. sipedon sipedon*) presented by Thomas Wright Rudderow, Philadelphia.
- " 6. 1 painted terrapin (*Chrysemys picta*) presented by Miss Eva Bush, Philadelphia. 1 common deer (*Mazama virginianus*) born in the Gardens.
- " 7. 1 Canada porcupine (*Erethizon dorsatus*). 1 Le Conte's snake (*Rhinochilus lecontei*) purchased. 1 keeled green snake (*Liopeltis æstivus*) presented by J. Hope, Philadelphia. 1 herring gull (*L. argentatus smithsonianus*) presented by A. B. Keen, Rising Sun, Md. 4 bull frogs (*Rana catesbiana*), 2 Muhlenbergh's terrapins (*Clemmys muhlenbergi*), 1 wave-lined lizard (*Sceloporus undulatus*) collected by J. W. Thompson, Philadelphia.
- " 8. 2 Lindheimer's snakes (*Coluber obsoletus lindheimeri*), 2 Holbrook's water snakes (*Tropidonotus rhombifer*), 1 Say's king snake (*Ophibolus getulus sayi*), 1 Fairie's garter snake (*Eutænia proxima*), 1 Marcy's garter snake (*Eutænia elegans marciæ*), 1 whip snake (*Bascanium flagellum*), purchased.
- " 9. 1 alligator (*A. mississippiensis*) presented by Roland Reed, Philadelphia.
- " 10. 2 Sacken's garter snakes (*Eutænia sackeni*) purchased. 1 Virginia deer (*Mazama virginianus*) born in the Gardens. 1 mocking bird (*Mimus polyglottus*) presented by J. C. Champion, Philadelphia.
- " 11. 1 blue-bearded jay (*Cyanocorax cyanopogon*) purchased. 1 Evan's king snake (*Ophibolus calligaster*), 1 Holbrook's water snake (*Tropidonotus rhombifer*), 5 racine garter snakes (*Eutænia radix*), 1 Fairie's garter snake (*Eutænia proxima*), 4 black snakes (*Bascanium constrictor*), 1 common water snake (*Tropidonotus sipedon sipedon*) received in exchange.
- " 12. 2 golden pheasants (*Chrysolophus pictus*) born in the Gardens.
- " 13. 2 Canada geese (*Branta canadensis*) purchased. 1 white-fronted amazon (*Chrysotis leucocephala*) presented by Robert Clark, Philadelphia. 3 desert mice (*Peromyscus leucopus*) born in the Gardens.

- June 14. 1 Emory's snake (*Coluber emoryi*), 2 Say's king snakes (*Ophibolus getulus sayi*), 1 Le Conte's snake (*Rhinochilus lecontei*), 1 Marcy's garter snake (*Eutænia elegans marciana*), 1 Woodhouse's water snake (*Tropidonotus sipedon transversus*) purchased.
- " 15. 1 common water snake (*T. sipedon sipedon*) presented by Master Norman Matlack, Bridgeton, N. J. 2 pine snakes (*Pityophis melano-leucus*) purchased.
- " 18. 1 American crocodile (*Crocodilus americanus*) presented by Paul Farnum, Philadelphia. 1 sparrow-hawk (*Falco sparverius*) presented by Master Wallace Murray, Philadelphia. 3 Say's pine snakes (*Pityophis catenifer sayi*), 6 copperhead snakes (*Ancistrodon contortrix*), 8 harlequin snakes (*Elaps fulvius*), 2 Le Conte's snakes (*Rhinochilus lecontei*), 1 Clarke's water snake (*Tropidonotus clarkii*), 2 elegant bull snakes (*Rhinechis elegans*) purchased.
- " 19. 1 red-winged king parrakeet (*Aprosmictus erythropterus*), 1 king snake (*Ophibolus getulus getulus*) purchased. 1 night heron (*Nycticorax nycticorax nævius*) presented by Charles Straube, Philadelphia.
- " 21. 1 Say's king snake (*Ophibolus getulus sayi*) purchased.
- " 22. 1 fallow deer (*Cervus dama*) born in the Gardens. 1 opossum (*Didelphys marsupialis*) presented by Master Morris G. Evans, Philadelphia. 2 Canada porcupines (*Erethizon dorsatus dorsatus*), 1 Say's pine snake (*Pityophis catenifer sayi*) purchased.
- " 23. 1 alligator (*A. mississippiensis*) presented by Master Lincoln Ridgely, Philadelphia. 1 guinea pig presented by C. R. Cooper, Philadelphia. 4 garter snakes (*Eutænia sirtalis sirtalis*), 1 black snake (*Bascanium constrictor*) presented by Raimonde Lane, Norwood, Pa.
- " 24. 1 salt-water terrapin (*Malaclemmys terrapin*) purchased. 2 painted terrapins (*Chrysemys picta*) presented. 4 prairie dogs (*Cynomys ludovicianus*) born in the Gardens.
- " 25. 1 screech owl (*Scops asio trichopsis*) purchased. 1 alligator (*A. mississippiensis*) presented by G. B. Fletcher, Philadelphia. 1 hairy-rumped agouti (*Dasyprocta prymnolopha*) received through Messrs. Thomas Cook & Son.
- " 27. 2 prairie dogs (*Cynomys ludovicianus*), 4 jungle fowl (*Gallus gallus*) born in the Gardens. 1 orbicular horned lizard (*Phrynosoma orbiculare*) presented by G. W. Fraley, Philadelphia. 6 collared lizards (*Crotaphytus collaris*), 2 Emory's snakes (*Coluber emoryi*) purchased. 1 spiny soft-shelled turtle (*Trionyx spinifer*) presented by Charles F. Schnorpfeil, Philadelphia. 1 Geoffroy's marmoset (*Midas geoffroyi*) purchased.
- " 28. 9 Fairie's garter snakes (*Eutænia proxima*) born in the Gardens. 3 Blanding's terrapins (*Emys blandingi*), 1 painted terrapin (*Chrysemys picta*), 1 mountain black snake (*Coluber obsoletus obsoletus*), 1 common black snake (*Bascanium constrictor*), 1 king snake (*Ophibolus getulus getulus*) purchased. 1 alligator (*A. mississippiensis*) presented by George Stewart, Philadelphia. 1 alligator (*A. mississippiensis*) presented by J. H. Frees, Lebanon, Pa.
- " 29. 1 reticulated python (*Python reticulatus*) purchased.
- " 30. 1 common deer (*Mazama virginianas*) presented by William L. Elkins, Philadelphia. 2 alligators (*A. mississippiensis*) presented by Master William Gaylor, Philadelphia.

- July 2. 1 milk snake (*Ophibolus doliatus triangularis*) exchanged.
- " 3. 1 mountain black snake (*C. obsoletus obsoletus*), 1 common black snake (*B. constrictor*) presented by A. M. Munson, Philadelphia. 1 rabbit presented by Master Albert Liveright, Philadelphia.
- " 4. 1 sun bear (*Ursus malayanus*) ♀ purchased.
- " 5. 5 prairie dogs (*Cynomys ludovicianus*) presented by W. Stokes Kirk, Philadelphia. 2 gray squirrels (*Sciurus carolinensis pennsylvanicus*) presented by S. F. Wise, Philadelphia.
- " 6. 29 Marcy's garter snakes (*Eutania elegans marciana*) born in the Gardens. 1 young red-tailed buzzard (*Buteo borealis*) presented by Dr. J. T. Perkins, Springfield, Md.
- " 7. 2 rabbits presented by Oscar Pippet, Philadelphia.
- " 9. 1 alligator (*A. mississippiensis*) presented by Mrs. Sennigen, Philadelphia. 1 musk turtle (*Cinosternum odoratus*) presented by George Talman, Philadelphia.
- " 10. 20 European pond tortoises (*Emys orbicularis*), 1 bridled whip snake (*Basanium flagellum frenatum*), 1 Emory's snake (*Coluber emoryi*) purchased.
- " 11. 6 prairie dogs (*Cynomys ludovicianus*) born in the Gardens. 1 chimpanzee (*Anthropopithecus niger*) ♂ presented by Dr. Thomas Biddle, Philadelphia. 14 common ringed snakes (*Tropidonotus natrix*), 3 anubis baboons (*Papio anubis*), 3 yellow baboons (*P. cynocephalus*), 2 Guinea baboons (*P. sphinx*), 1 moustache monkey (*Cercopithecus cephus*), 2 Diana monkeys (*C. diana*), 1 Campbell's monkey (*C. campbelli*), 2 green monkeys (*C. callitrichus*), 1 hocheur monkey (*C. nictitans*), 4 sooty mangabeys (*Cercocebus fuliginosus*), 1 white-crowned mangabey (*C. æthiops*), 1 gray-cheeked mangabey (*C. albigena*), 2 wart hogs (*Phacochoerus æthiopicus*), 2 black-backed jackals (*Canis mesomelas*), 2 crowned pigeons (*Goura coronata*), 1 European otter (*Lutra lutra*), 2 long-eared foxes (*Otocyon megalotis*), 1 fennec fox (*Canis cerdo*), 2 whooper swans (*Cygnus musicus*) purchased. 1 drill (*Papio leucophaeus*) ♂ presented by Carl Hagenbeck, Hamburg, Germany.
- " 12. 10 Marcy's garter snakes (*Eutania elegans marciana*) born in the Gardens. 2 box tortoises (*Terrapene carolina*) presented by Mrs. Benjamin Street, Philadelphia.
- " 14. 2 Audubon's caracaras (*Polyborus cheriway*) purchased. 1 alligator (*A. mississippiensis*) presented by Mrs. B. E. Beck, Philadelphia. 3 Guinea pigs presented by Miss Helen Raymond, Philadelphia.
- " 16. 1 Indian antelope (*Antelope cervicapra*) born in the Gardens.
- " 18. 3 green lizards (*Lacerta viridis*) purchased.
- " 19. 20 Marcy's garter snakes (*Eutania elegans marciana*), 8 banded water snakes (*T. sipedon fasciatus*), 3 common garter snakes (*E. sirtalis sirtalis*) born in the Gardens.
- " 20. 2 hog-nosed snakes (*Heterodon platyrhinos*), 2 Say's king snakes (*O. getulus sayi*), 1 Emory's snake (*Coluber emoryi*), 6 Western sand snakes (*Heterodon nasicus*) purchased. 2 Naga dogs, domestic breed from East Indies, presented by W. H. Furness, Wallingford, Pa.
- " 21. 1 citron-crested cockatoo (*Cacatua citrinocristata*) presented by Mrs. C. Cresson, Philadelphia. 2 giant kingfishers (*Dacelo gigas*),



- 2 white-crested jay thrushes (*Garrulax leucolophus*), 1 nutcracker crow (*Nucifraga caryocatactes*), 2 Swainson's lorikeets (*Trichoglossus novae-hollandiae*), 2 moor hens (*Gallinula chloropus*), 1 black gallinule (*Limnecorax niger*) purchased.
- July 23. 1 snapping turtle (*Chelydra serpentina*) presented by W. H. Loeb, Philadelphia.
- " 24. 9 Clark's water snakes (*Tropidonotus clarkii*) born in the Gardens.
- " 25. 3 indigo snakes (*Spilotes corais couperi*), 1 corn snake (*Coluber guttatus*) purchased. 1 DeKay's snake (*Storeria dekayi*) presented by Master Willie Wilson, Philadelphia.
- " 26. 1 brown-fronted macaw (*Ara severa*), 2 green jays (*Xanthura luxuosa*), 2 Douglass' horned lizards and 21 young (*Phrynosoma douglassi*), 1 red-shouldered parakeet (*Palaeornis eupatrius*) purchased. 1 golden-rumped agouti (*Dasyprocta aguti*) presented by Capt. A. J. Reid, British bark "Severn."
- " 27. 8 banded rattlesnakes (*Crotalus horridus*) presented by John Wiseman, Philadelphia.
- " 29. 2 white-throated wood rats (*Neotoma albigula*), 24 banded water snakes (*T. sipedon fasciatus*) born in the Gardens.
- " 31. 2 wild turkeys (*Meleagris gallopavo*) born in the Gardens.
- Aug. 1. 1 Boyle's king snake (*Ophibolus getulus boylii*) presented by Herbert Brown, Yuma, Ariz. 8 banded water snakes (*Tropidonotus sipedon fasciatus*) born in the Gardens. 1 raccoon (*Procyon lotor*) presented by Elmer V. Pyle, Elam, Pa.
- " 2. 9 Say's pine snakes (*Pityophis catenifer sayi*), 8 whip snakes (*Bascanium flagellum*), 1 common pine snake (*Pityophis melanoleucus*) purchased. 1 rabbit presented by J. W. Roberts, Philadelphia. 4 desert mice (*Neotoma intermedia*) born in the Gardens.
- " 3. 2 painted terrapins (*Chrysemys picta*) presented by Master Vance Lindsay, Philadelphia.
- " 4. 1 painted terrapin (*Chrysemys picta*) presented by Miss Helen Higgins, Philadelphia. 1 night heron (*N. nycticorax naevius*) presented by Charles Beck, Philadelphia.
- " 6. 1 banded rattlesnake (*Crotalus horridus*), 2 whip snakes (*Bascanium flagellum*) presented by E. M. Cornell, Mount Meigs, Ala.
- " 7. 3 smooth green snakes (*Liopeltis vernalis*), 1 garter snake (*E. sirtalis sirtalis*) presented by Charles Este, Philadelphia.
- " 8. 1 hog-nosed snake (*Heterodon platyrhinos*) presented by David McCadden, Philadelphia. 3 garter snakes (*E. sirtalis sirtalis*) presented by J. L. Buck, Philadelphia. 2 Bonaparte's weasels (*Putorius cicognani*) purchased.
- " 10. 1 pine snake (*Pityophis melanoleucus*) purchased.
- " 11. 1 striated terrapin (*Clemmys insculptus*) presented by Master Willie Coon, Philadelphia. 1 yellow-fronted amazon (*Chrysotis ochrocephala*) presented by F. B. Warner, Germantown, Philadelphia.
- " 13. 1 black snake (*Bascanium constrictor*) presented by F. S. Klinger, Ephrata, Pa.
- " 15. 2 Algerian skinks (*Eumeces algeriensis*) purchased.
- " 17. 1 Say's king snake (*O. getulus sayi*), 1 whip snake (*Bascanium flagellum*), 1 Marcy's garter snake (*E. elegans marciana*) presented by E. Meyenberg, Pecos City, Texas. 1 white-fronted amazon (*Chry-*

- solis leucocephala*) presented by Mrs. H. J. Butler, Philadelphia. 1 common marmoset (*Hapale jacchus*) presented by Miss M. Sees, Philadelphia. 5 diamond rattlesnakes (*Crotalus adamanteus*) purchased.
- Aug. 20. 1 sparrow hawk (*Falco sparverius*) presented by Master Alfred Nageli, Philadelphia. 3 Western diamond rattlesnakes (*C. atrox atrox*) purchased.
- " 22. 2 hamadryas baboons (*Papio hamadryas*) ♂ and ♀, 1 sooty mangabey (*Cercocebus fuliginosus*) ♂, 1 entellus monkey (*Semnopithecus entellus*) ♀, 1 white-throated capucin (*Cebus hypoleucus*), 1 rhesus macaque (*Macacus rhesus*), 1 red and blue macaw (*Ara chloroptera*), 1 Leadbeater's cockatoo (*Cacatua leadbeateri*), 1 mealy amazon (*Chrysotis farinosa*), 3 yellow-throated parakeets (*Broto-gerys jugularis*), 1 ring-necked parakeet (*Palæornis torquatus*), 2 paradise whydah birds (*Steganura paradisea*) purchased. 2 snapping turtles (*Chelydra serpentina*), 2 musk turtles (*Cinosternum odoratus*) presented.
- " 23. 1 white-throated capucin (*Cebus hypoleucus*), 2 weeper capucins (*Cebus capucinus*), 1 pinche monkey (*Midas ædipus*), 1 Guinea baboon (*Papio sphinx*), 2 crested ground parakeets (*Calopsitta novæ-hollandiæ*), purchased. 1 painted terrapin (*Chrysemys picta*) presented by Master Leon Boyer, Philadelphia. 1 barn owl (*S. flammea pratincola*) presented by C. B. Vaname, Yorktown, N. J. 7 water moccasins (*Ancistrodon contortrix*) born in the Gardens.
- " 24. 2 barred doves (*Geopelia striata*) presented by Herman C. Jans, Philadelphia. 1 Levaillant's amazon (*Chrysotis levaillanti*) presented by Master J. K. M. Harrison, Philadelphia.
- " 25. 3 young barn owls (*S. flammea pratincola*) presented by Master Roy and Miss Ruth Whiskeyman, Philadelphia. 1 alligator (*A. mississippiensis*) presented by Mrs. A. E. Hayward, Philadelphia. 1 barn owl (*S. flammea pratincola*) presented by D. G. Russell, Philadelphia.
- " 27. 3 Sacken's garter snakes (*Eutænia sackeni*) born in the Gardens.
- " 28. 1 European jay (*Garrulus glandarius*), 1 blue-bearded jay (*Cyanocorax cyanopogon*) purchased.
- " 29. 2 cyclop's water snakes (*Tropidonotus cyclopeum*), 1 brown water snake (*T. taxispilotus*) purchased.
- " 30. 2 ground rattlesnakes (*Sistrurus miliarius*) born in the Gardens.
- " 31. 2 collared peccaries (*Dicotyles tajacu*) purchased. 1 collared peccary (*D. tajacu*) exchanged.
- Sept. 1. 1 gray fox (*C. cinereo-argentatus*), 2 black vultures (*Cathartes atratus*), 2 turkey vultures (*C. aura*), 2 white ibises (*Guara alba*), 2 double-crested cormorants (*Phalacrocorax dilophus*) purchased.
- " 2. 2 red-fronted amazons (*Chrysotis vittata*) purchased.
- " 3. 1 milk snake (*O. dolius triangulus*) purchased.
- " 4. 6 horned lizards (*Phrynosoma cornuta*) purchased.
- " 5. 1 fence lizard (*Eumeces quinelineatus*) presented by Samuel Garman, Philadelphia.
- " 6. 2 White's cyclodus (*Tiliqua scincoides*), 1 three-toed sloth (*Bradypus tridactylus*), 13 horned lizards (*Phrynosoma cornuta*) purchased. 1 woodchuck (*Arctomys monax*) presented by the S. P. Wetherill Company, Tioga, Philadelphia.

- Sept. 7. 1 rhesus macaque (*Macacus rhesus*) purchased.
- " 8. 2 banded rattlesnakes (*Crotalus horridus*) presented by J. B. A. Bennett, Alice, N. C. 7 horned lizards (*Phrynosoma cornuta*) purchased. 1 gray parrot (*Psittacus erythacus*), 7 undulated grass parrakeets purchased.
- " 9. 3 ground rattlesnakes (*Sistrurus miliarius*) born in the Gardens. 5 fence lizards (*Eumeces quinquelineatus*), 1 hog-nosed snake (*Heterodon platyrhinos*), 1 water snake (*Tropidonotus natrix*), 1 Muhlenberg's terrapin (*Clemmys muhlenbergi*), 4 toads (*Bufo lentiginosus americanus*) presented by H. G. Walters, Philadelphia.
- " 10. 1 ground rattlesnake (*S. miliarius*) born in the Gardens. 1 bonnet macaque (*Macacus sinicus*), 2 brown capucins (*Cebus fatuellus*), 1 white-nosed coati (*Nasua narica*), 1 roseate cockatoo (*Cacatua roseicapilla*), 2 St. Thomas conures (*Conurus pertinax*), 4 undulated grass parrakeets (*Melopsittacus undulatus*), 2 crested ground parrakeets (*Calopsitta nova-hollandiae*), 4 gray-headed love birds (*Agapornis canus*), 2 orchard orioles (*Icterus spurius*), 2 crimson-eared waxbills (*Estrilda phaenicotis*), 4 Senegal fire finches (*Lagonosticta senegala*), 2 Japanese nun finches—domestic breed, 2 hooded finches (*Spermestes cu cullata*), 2 chestnut-eared finches (*Amadina castanotis*), 2 orange-cheeked finches (*Sporæginthus melpada*), 2 African silver-bills (*Aidemosque cantans*), 2 yellow-rumped seed-eaters (*Serinus icterus*) purchased.
- " 11. 1 Storer's snake (*Storeria occipito-maculata*) presented by Miss Mary C. Curtin, Philadelphia.
- " 12. 13 Marcy's garter snakes (*E. elegans marci*) born in the Gardens. 2 yellow-shouldered amazons (*C. ochroptera*), 1 gray-breasted parrakeet (*Bolborhynchus monachus*), 3 rosy-faced love birds (*Agapornis roseicollis*) purchased.
- " 13. 1 great green macaw (*Ara militaris*) purchased.
- " 15. 4 hybrid geese presented by Jay Cooke, Ogontz, Pa. 2 alligators (*A. mississippiensis*) presented by R. Jack, Jr., Sharon Hill, Pa.
- " 19. 3 menobranchus (*Necturus maculatus*) purchased.
- " 20. 4 golden-crowned conures (*Conurus aureus*), 1 brown water snake (*T. taxispilotus*) purchased.
- " 22. 2 canary birds (*Serinus serinus*) presented by Master William Vickers, Philadelphia. 1 box tortoise (*Terrapene carolina*) presented by Constantine Thorn, Philadelphia.
- " 26. 1 alligator (*A. mississippiensis*) presented by William Bartram, Philadelphia.
- " 27. 1 wave-lined lizard (*Sceloporus undulatus*) presented by George C. Klaing, Philadelphia. 1 hog-nosed snake (*Heterodon platyrhinos*) presented. 16 Woodhouse's water snakes (*T. sipedon transversus*) born in the Gardens. 1 common water snake (*T. sipedon sipedon*) presented by J. W. Thompson, Philadelphia.
- " 28. 1 Say's king snake (*O. getulus sayi*), 1 Western sand snake (*Heterodon nasicus*) purchased. 1 gray wood rat (*Neotoma micropus*) presented by E. Meyenberg, Pecos City, Texas.
- " 29. 1 tayra (*Galictis barbara*) purchased.
- Oct. 1. 1 Marcy's garter snake (*E. elegans marci*) presented by Herbert Brown, Tucson, Ariz. 2 blood-rumped parrakeets (*Psephotus*

- hæmatonotus*), 2 rosy parakeets (*Palæornis rosa*), 2 all-green parakeets (*Brotogerys tirica*), 3 Venezuela parakeets (*Bolborhynchus lineola*), 2 Mexican conures (*Conurus holochlorus*) purchased.
- Oct. 4. 1 Campbell's monkey (*Cercopithecus campbelli*) purchased. 1 hog deer (*Cervus porcinus*) born in the Gardens.
- " 5. 2 elks (*Cervus canadensis*) ♂ ♂, received in exchange.
- " 6. 2 crowned horned lizards (*Phrynosoma coronata*) presented by Masters Justice and Henry Garwood, Philadelphia.
- " 7. 1 hog deer (*Cervus porcinus*) born in the Gardens. 1 gray wood rat (*Neotoma micropus*) purchased.
- " 8. 4 yellow-throated parakeets (*Brotogerys jugularis*), 1 white-fronted amazon (*Chrysotis leucocephala*), 1 bonnet macaque (*Macacus sinicus*), 4 common iguanas (*Iguana tuberculata*) purchased.
- " 9. 2 Azara's foxes (*Canis azaræ*), 1 tayra (*Galictis barbara*), 2 Brazilian tree porcupines (*Coendou prehensilis*), 2 galeated curassows (*Pauxi paxi*) 1 King vulture (*Gypagrus papa*), 2 barred owls (*Syrnium nebulosum*) purchased. 1 red-eared terrapin (*Chrysemys elegans*) presented.
- " 11. 2 alligators (*Alligator mississippiensis*) presented by Master Roy P. Lingle, Philadelphia.
- " 12. 1 Boyle's king snake (*Ophibolus getulus boylii*) presented by Herbert Brown, Yuma, Ariz.
- " 13. 1 red fox (*Canis vulpes pennsylvanicus*) presented.
- " 14. 1 alligator (*A. mississippiensis*) presented by Master William Shoemaker, Philadelphia. 1 box tortoise (*Terrapene carolina*) presented by Master W. H. Gantt, Philadelphia.
- " 15. 1 ground squirrel (*Tamias striatus*) presented by Charles Donat, Philadelphia.
- " 16. 1 gray wood rat (*Neotoma micropus*), 2 Mexican spermophiles (*Spermophilus mexicanus*), 1 American jabiru (*Mycteria americana*) purchased.
- " 18. 1 gray fox (*Canis cinereo-argentatus*) presented by James R. Smith, Philadelphia.
- " 19. 1 kangaroo rat, 2 yellow-headed conures (*Conurus jendaya*), 2 Patagonian conures (*Conurus patagonus*) purchased.
- " 20. 3 Marcy's garter snakes (*Eutania elegans marci*) presented by E. Meyenberg, Pecos, Texas. 1 white-haired porcupine (*Erethizon dorsatus dorsatus*) presented by W. H. Verner, Philadelphia. 1 black snake (*Bascanium constrictor*) presented by J. L. Buck, Philadelphia.
- " 21. 1 swift-snake (*Dromicus angulifer*) purchased.
- " 22. 1 copperhead snake (*Ancistrodon contortrix*), 2 painted box tortoises (*Terrapene ornata*) purchased.
- " 24. 1 opossum (*Didelphys marsupialis*) presented by Mrs. M. C. Hoffman, Philadelphia. 8 alligators (*A. mississippiensis*) presented by Henry Frederick, Philadelphia. 2 Say's pine snakes (*Pityophis melanoleucus*) born in the Gardens.
- " 25. 1 DeKay's snake (*Storeria dekayi*) presented by Dr. Samuel G. Dixon, Philadelphia.
- " 26. 1 alligator (*A. mississippiensis*) presented by S. W. Kephart, Philadelphia.



- Oct. 27. 1 pig-tailed monkey (*Macacus nemestrinus*) presented by Miss Harriet H. Enos, Porter's Station, Del. 1 alligator (*A. mississippiensis*) presented by Dr. C. H. McDowell, Philadelphia. 1 whip snake (*Bascanium flagellum*), 4 Marcy's garter snakes (*E. elegans marciana*), 2 red-skinned garter snakes (*E. sirtalis parietalis*), 2 Holbrook's water snakes (*Tropidonotus rhombifer*), 1 hog-nosed snake (*Heterodon platyrhinos*), 1 Emory's snake (*Coluber emoryi*), 2 Lindheimer's snakes (*C. obsoletus lindheimeri*) purchased.
- " 28. 1 Indian antelope (*Antilope cervicapra*) born in the Gardens.
- " 30. 1 turkey vulture (*Cathartes aura*) presented by S. M. Shelly, Philadelphia. 1 Marcy's garter snake (*E. elegans marciana*), 1 Boyle's king snake (*Ophibolus getulus boylii*) presented by Herbert Brown, Yuma, Ariz.
- Nov. 1. 1 robust kangaroo (*Macropus robustus*) born in the Gardens.
- " 2. 2 Prevost's squirrels (*Sciurus prevosti*), 7 Marcy's garter snakes (*E. elegans marciana*), 2 red-skinned garter snakes (*E. sirtalis parietalis*), 1 Holbrook's water snake (*Tropidonotus rhombifer*) purchased.
- " 3. 1 common coot (*Fulica americana*) presented by John W. Harris, Mount Holly, N. J. 1 Say's pine snake (*Ptyophis catenifer sayi*) born in the Gardens.
- " 5. 2 black and white lemurs (*Lemur varius*) purchased.
- " 7. 1 brown capucin (*Cebus fatuellus*), 1 common coot (*Fulica americana*) purchased.
- " 12. 1 common macaque (*Macacus cynomolgus*) presented by George S. Lubker, Lewes, Del. 1 raccoon (*Procyon lotor*) presented by Mrs. Crosby, Philadelphia.
- " 14. 1 Malayan sambur deer (*Cervus equinus*) ♀ born in the Gardens.
- " 15. 5 Western diamond rattlesnakes (*Crotalus atrox atrox*), 1 banded rattlesnake (*Crotalus horridus*) presented by H. K. Mulford & Co., Philadelphia. 4 copperhead snakes (*Ancistrodon contortrix*), 2 water moccasins (*A. piscivorus*) presented by Dr. Joseph McFarland, Philadelphia.
- " 16. 1 gray wood rat (*Neotoma micropus*), 1 Mexican spermophile (*Spermophilus mexicanus*), 1 Texas cotton rat (*Sigmodon hispidus texianus*), 2 white-crowned sparrows (*Zonotrichia leucophrys*), 1 scaled quail (*Callipepla squamata*), 1 European starling (*Sturnus vulgaris*), 1 European blue jay (*Garrulus glandarius*), 2 summer ducks (*Aix sponsa*) purchased.
- " 17. 1 alligator (*A. mississippiensis*) presented by E. B. Parker, Swarthmore, Pa.
- " 19. 2 nonpareil buntings (*Passerina ciris*), 3 bulfinches (*Pyrrhula pyrrhula*), 2 linnets (*Acanthis cannabina*) purchased.
- " 22. 1 Levaillant's amazon (*Chrysotis levaillanti*) presented by J. I. McDuffee, Philadelphia.
- " 24. 3 diamond rattlesnakes (*Crotalus adamanteus*), 18 ground rattlesnakes (*Sistrurus miliarius*), 3 harlequin snakes (*Elaps fulvius*), 1 water moccasin (*Ancistrodon contortrix*), 33 black snakes (*Bascanium constrictor*), 6 common garter snakes (*E. sirtalis sirtalis*), 12 Sacken's garter snakes (*E. sackeni*), 31 hog-nosed snakes (*Heterodon platyrhinos*), 7 indigo snakes (*Spilotes corais couperi*),

- 14 king snakes (*O. getulus getulus*), 26 common water snakes (*T. sipedon sipedon*), 10 whip snakes (*Bascanium flagellum*), 3 chicken snakes (*Coluber quadrivittatus*), 1 glass snake (*Ophisaurus ventralis*), 10 pine snakes (*Pityophis melanoleucus*), 1 scarlet snake (*Cemophora coccinea*), 2 fence lizards (*Eumeces quinque-lineatus*), 10 six-lined lizards (*Cnemidophorus sex-lineatus*), 9 green lizards (*Lacerta viridis*) purchased.
- Nov. 25. 1 wave-lined lizard (*Sceloporus undulatus*) presented by Charles Johnson, Philadelphia.
- " 26. 1 alligator (*A. mississippiensis*) presented by Miss Helen Leisel, Philadelphia.
- " 27. 1 Texas cotton rat (*Sigmodon hispidus texianus*) presented by E. Meyenberg, Pecos, Texas. 1 kangaroo rat purchased.
- " 29. 2 kangaroo rats purchased.
- Dec. 1. 1 canary (*Serinus serinus*) presented by Mary Steiger, Philadelphia.
- " 2. 1 screech owl (*Scops asio*) presented by Masters John and Frank Boyer, Philadelphia.
- " 4. 3 Texas cardinals (*Pyrrhuloxia sinuata*), 1 Western towhee (*Pipilo maculatus arcticus*) purchased.
- " 5. 1 canary (*Serinus serinus*) presented by Miss Helen Graham Carson, Philadelphia. 2 pine snakes (*Pityophis melanoleucus*), 2 indigo snakes (*Spilotis corais couperi*), 1 king snake (*Ophibolus getulus getulus*), 3 hog-nosed snakes (*Heterodon platyrhinos*) purchased.
- " 6. 10 Carolina doves (*Zenaidura carolinensis*), 1 green-winged dove (*Chalcophaps indica*), 2 doves purchased.
- " 7. 2 Texas cotton rats (*S. hispidus texianus*) purchased.
- " 8. 2 copperhead snakes (*Ancistrodon contortrix*) presented by A. M. Munson, Philadelphia.
- " 10. 1 robust kangaroo (*Macropus robustus*) born in the Gardens.
- " 11. 1 copperhead snake (*Ancistrodon contortrix*) presented by John W. Thompson, Philadelphia. 1 common macaque (*Macacus cynomolgus*) presented by Joseph J. DeKinder, Philadelphia.
- " 14. 1 whistling swan (*Cygnus columbianus*) purchased. 1 loggerhead shrike (*Lanius ludovicianus*) presented by Frank Phillips, Philadelphia.
- " 16. 1 alligator (*A. mississippiensis*) presented by John Reiff, Philadelphia.
- " 18. 1 Texas cotton rat (*S. hispidus texianus*), 1 El Paso grasshopper mouse (*Onychomys torridus arenicola*), 2 red-vented parrots (*Pionus menstruus*), 1 Guatemalan amazon (*Chrysotis guatemala*), purchased.
- " 20. 1 American crow (*Corvus americanus*) presented by Master Charles A. Robinson, Philadelphia.
- " 21. 1 common macaque (*Macacus cynomolgus*) presented by D. E. Hickernell, Philadelphia.
- " 23. 1 common marmoset (*Hapale jacchus*) presented by W. L. Smith Philadelphia.
- " 29. 1 ruffed grouse (*Bonasa umbellus*) presented by J. N. M. Shimer, Philadelphia. 2 black-headed conures (*Conurus nenday*), 1 blossom-headed parakeet (*Palæornis cyanocephalus*) purchased.
- " 31. 1 hog deer (*Cervus porcinus*) born in the Gardens. 1 bald eagle (*Haliaetus leucocephalus*) presented by John S. Ward, Philadelphia. 2 opossums (*Didelphys marsupialis*) presented by Inman Horner, Philadelphia.

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- Jan. 6. 1 screech owl (*Scops asio*) presented by Master and Miss Boyer, Philadelphia. 1 opossum (*Didelphys marsupialis*) presented by Mrs. A. P. Stevens, Philadelphia.
- " 7. 1 green monkey (*Cercopithecus callitrichus*) born in the Gardens.
- " 9. 2 red-tailed buzzards (*Buteo borealis*) presented by William Van Horn, Philadelphia. 1 great-horned owl (*Bubo virginianus*) presented by J. Mayland Arthur, Philadelphia. 8 white-crowned sparrows (*Zonotrichia leucophrys*) purchased.
- " 12. 1 herring gull (*Larus argentatus smithsonianus*) presented by Master Johnnie Gallagher, Philadelphia. 1 opossum (*Didelphys marsupialis*) presented by W. G. Zilbey, Philadelphia.
- " 16. 1 brown bear (*Ursus arctos*) born in the Gardens.
- " 18. 2 red foxes (*C. vulpes pennsylvanicus*) presented by F. A. Behr, Lopez, Pa.
- " 19. 1 slow loris (*Nycticebus tardigradus*) presented by Harold D. Campbell, Philadelphia.
- " 20. 2 nylghaies (*Boselaphus tragocamelus*) born in the Gardens.
- " 21. 1 chestnut-faced pocket gopher (*Cratogeomys castanops*), 1 rosehill parakeet (*Platycercus eximius*). 1 American blue jay (*Cyanocitta cristata*), 2 cutthroat finches (*Amadina fasciata*), 1 orange-cheeked finch (*Sporæginthus melpoda*), 1 Senegal fire finch (*Lagonosticta senegala*). 2 spotted munia finches (*Munia punctulata*), 2 black-headed finches (*Munia malacca*), 1 goldfinch (*Carduelis carduelis*), 2 yellow ammers (*Emberiza citrinella*), 1 yellow-bellied songster (*Liothrix luteus*), 1 Swainson's lorikeet (*Trichiglossus novæ-hollandiæ*), 1 mandarin duck (*Aix galericulata*), 1 red-shouldered buzzard (*Buteo lineatus*) purchased.
- " 24. 1 hog deer (*Cervus porcinus*) born in the Gardens.
- " 25. 1 mocking bird (*Mimus polyglottus*) presented by James Baxter, Philadelphia.
- " 27. 1 song sparrow (*Melospiza fasciata*) captured in the Gardens.
- " 28. 1 chestnut-faced pocket gopher (*Cratogeomys castanops*). 1 yellow-headed conure (*Conurus jendaya*), 1 rosy parakeet (*Palæornis rosa*), 1 song thrush (*Turdus musicus*) purchased.
- Feb. 2. 1 alligator (*A. mississippiensis*) presented by James Coulbourn, Philadelphia.
- " 3. 1 sparrow hawk (*Falco sparverius*) presented by Charles Gantt, Overbrook, Pa.
- " 4. 1 alligator (*A. mississippiensis*) presented by S. W. Haines, Camden, N. J.
- " 11. 1 chapparal cock (*Geococcyx mexicanus*) purchased.
- " 12. 1 Levaillant's amazon (*Chrysotis levaillanti*) presented by Capt. Charles B. Edgar, Philadelphia.
- " 14. 2 European robins (*Erithecus rubeculus*), 1 troupial (*Icterus icterus*), 1 cocoi heron (*Ardea cocoi*) purchased.
- " 18. 2 chestnut-breasted finches (*Munia castaneothorax*), 2 cinereus waxbills (*Lagonosticta cærulescens*), 2 saffron finches (*Sycalis flaveola*). 2 modest finches (*Aidemosyne modesta*), 2 hooded finches (*Spermestes cucullata*), 2 black-headed finches (*Munia malacca*) purchased.
- " 22. 1 ocelot (*Felis pardalis*), 1 white-collared mangabey (*Cercocebus collaris*), purchased.
- " 23. 2 yellow-shouldered amazons (*Chrysotis ochroptera*), 2 crimson-eared waxbills (*Estrilda phænicotis*).













